

# r204\_fln\_shp

Metadata also available as

## Metadata:

- [Identification Information](#)
  - [Data Quality Information](#)
  - [Spatial Data Organization Information](#)
  - [Spatial Reference Information](#)
  - [Entity and Attribute Information](#)
  - [Distribution Information](#)
  - [Metadata Reference Information](#)
- 

### *Identification\_Information:*

#### *Citation:*

##### *Citation\_Information:*

##### *Originator:*

USDA Forest Service, Rocky Mountain Region, Forest Health Management

*Publication\_Date:* February 2, 2005

*Title:* r204\_fln\_shp

*Geospatial\_Data\_Presentation\_Form:* vector digital data

*Online\_Linkage:* <<http://www.fs.fed.us/r2/resources/fhm/aerialsurvey/>>

##### *Larger\_Work\_Citation:*

##### *Citation\_Information:*

##### *Originator:*

USDA Forest Service, Rocky Mountain Region, Forest Health  
Management

*Publication\_Date:* 1950 to present

*Title:* Annual Aerial Detection Overview Survey

*Edition:* 2004

*Geospatial\_Data\_Presentation\_Form:* vector digital data

*Online\_Linkage:*

<<http://www.fs.fed.us/r2/resources/fhm/aerialsurvey/>>

### *Description:*

#### *Abstract:*

2004 USDA Forest Service, Rocky Mountain Region Aerial Detection Survey Data.  
"Flown/ not flown" (r204\_fln) feature class. This data depicts the spatial extent

where the 2004 aerial detection survey took place.

This data set is a companion to the r204\_dmg data, which depicts the occurrence and location of 2004 forest insect, disease, and other biotic and abiotic causes of tree mortality and tree damage. The r204\_fln data set provides information on which areas were surveyed, when the areas were surveyed, who the surveyors were (and their respective agencies), and what type of survey took place. Air turbulence, cloud shadows, distance from aircraft, haze, smoke, etc., which affect survey accuracies, may also be noted.

A companion handbook entitled "Aerial Survey Geographic Information System Handbook" should be obtained before using this data set. The handbook is available online at: <http://www.fs.fed.us/foresthealth/publications/id/gishandbook.pdf>. This handbook also serves as a data dictionary necessary for deciphering field codes.

*Purpose:*

Aerial survey data sets are created annually to provide trend information on forest insects, diseases, and other biotic and abiotic causes of tree mortality and tree damage; referred to herein as "damage causal agents". Aerial surveys provide information on the current status for many causal agents, and are important when examining insect activity trends by comparing historical and current survey data over large areas.

*Supplemental\_Information:*

It is important to view the r204\_fln feature class in conjunction with the r204\_dmg feature class in order to determine, for example, if the area in question is actually comprised of no tree mortality/ damage, or simply a case where the area was not aerially surveyed.

**\*\*NOTE\*\*** The spatial extent of r204\_fln feature class polygons often includes non-forested areas. This is due to the way the data is collected (i.e., the line feature from the aircraft's GPS flight track record is buffered by a predetermined distance regardless if the actual area on the ground is forested or not). It would be a mistake to count the acres within the r204\_fln feature class as "acres flown" or "acres surveyed" without the incorporation of a vegetation layer.

*Time\_Period\_of\_Content:*

*Time\_Period\_Information:*

*Single\_Date/Time:*

*Calendar\_Date:* 2004 (summer field season)

*Currentness\_Reference:* publication date

*Status:*

*Progress:* Complete

*Maintenance\_and\_Update\_Frequency:* As needed

*Spatial\_Domain:*

*Bounding\_Coordinates:*

*West\_Bounding\_Coordinate:* -110.192330

*East\_Bounding\_Coordinate:* -94.538399

*North\_Bounding\_Coordinate:* 45.103872

*South\_Bounding\_Coordinate:* 36.680862

*Keywords:*

*Theme:*

*Theme\_Keyword\_Thesaurus:* None

*Theme\_Keyword:* aerial survey

*Theme\_Keyword:* aerial detection survey

*Theme\_Keyword:* area flown

*Theme\_Keyword:* area not flown

*Theme\_Keyword:* forest health

*Theme\_Keyword:* forest health management

*Theme\_Keyword:* forest health protection

*Theme\_Keyword:* forest health monitoring

*Theme\_Keyword:* USDA Forest Service

*Theme\_Keyword:* spatial extent

*Theme\_Keyword:* date surveyed

*Theme\_Keyword:* surveyor

*Theme\_Keyword:* surveying agency

*Theme\_Keyword:* type of survey

*Theme\_Keyword:* special survey

*Theme\_Keyword:* overview survey

*Place:*

*Place\_Keyword:* Rocky Mountain Region

*Place\_Keyword:* Colorado

*Place\_Keyword:* Wyoming

*Place\_Keyword:* South Dakota

*Place\_Keyword:* Nebraska

*Place\_Keyword:* Kansas

*Place\_Keyword:* Region 2

*Temporal:*

*Temporal\_Keyword:* 2004

*Access\_Constraints:*

The "flown/ not flown" data is available digitally from the USDA Forest Service, Rocky Mountain Region, Forest Health Management group. The cooperators reserve the right to correct, update, modify or replace GIS products. Using this data for purposes other than those for which it was intended may yield inaccurate or misleading results.

The accompanying r204\_dmg GIS data set should be used in conjunction with this data set. The r204\_dmg data set depicts the occurrence and location of 2004 forest insect, disease, and other biotic and abiotic causes of tree mortality and tree damage.

*Use\_Constraints:*

The "flown/ not flown" data is available digitally from the USDA Forest Service, Rocky Mountain Region, Forest Health Management group. The cooperators reserve the right to correct, update, modify or replace GIS products. Using this data for purposes other than those for which it was intended may yield inaccurate or misleading results.

The accompanying r204\_dmg GIS data set should be used in conjunction with this data set. The r204\_dmg data set depicts the occurrence and location of 2004 forest insect, disease, and other biotic and abiotic causes of tree mortality and tree damage.

*Point\_of\_Contact:*

*Contact\_Information:*

*Contact\_Organization\_Primary:*

*Contact\_Organization:*

USDA Forest Service, Rocky Mountain Region, Forest Health Management

*Contact\_Person:* Erik Johnson

*Contact\_Position:* Aerial Survey Program Manager

*Contact\_Address:*

*Address\_Type:* physical address

*Address:* USDA Forest Service

*Address:* attn: Erik Johnson or Forest Health staff member

*Address:* 740 Simms Street

*City:* Golden

*State\_or\_Province:* Colorado

*Postal\_Code:* 80401

*Country:* USA

*Contact\_Voice\_Telephone:* 303.236.8001

*Contact\_Voice\_Telephone:* 303.275.5061

*Contact\_TDD/TTY\_Telephone:* 800.659.2656

*Contact\_Facsimile\_Telephone:* 303.236.9542

*Contact\_Facsimile\_Telephone:* 303.275.5075

*Contact\_Electronic\_Mail\_Address:* ejohnson02@fs.fed.us

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*Contact\_Electronic\_Mail\_Address:* fjcross@fs.fed.us

*Contact\_Electronic\_Mail\_Address:* jharris@fs.fed.us

*Hours\_of\_Service:* 09:00-16:00 MST

*Contact\_Instructions:* email is preferred

*Native\_Data\_Set\_Environment:*

Microsoft Windows 2000 Version 5.0 (Build 2195) Service Pack 4; ESRI ArcCatalog 9.0.0.535

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*Data\_Quality\_Information:*

*Lineage:**Process\_Step:**Process\_Description:* Metadata imported.*Source\_Used\_Citation\_Abbreviation:*

C:\gis\_data\airial\_survey\2004\r204\_dmg.shp.xml

*Process\_Step:**Process\_Description:* Dataset copied.*Source\_Used\_Citation\_Abbreviation:*

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*Spatial\_Data\_Organization\_Information:**Direct\_Spatial\_Reference\_Method:* Vector*Point\_and\_Vector\_Object\_Information:**SDTS\_Terms\_Description:**SDTS\_Point\_and\_Vector\_Object\_Type:* G-polygon*Point\_and\_Vector\_Object\_Count:* 54

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*Spatial\_Reference\_Information:**Horizontal\_Coordinate\_System\_Definition:**Planar:**Grid\_Coordinate\_System:**Grid\_Coordinate\_System\_Name:* Universal Transverse Mercator*Universal\_Transverse\_Mercator:**UTM\_Zone\_Number:* 13*Transverse\_Mercator:**Scale\_Factor\_at\_Central\_Meridian:* 0.999600*Longitude\_of\_Central\_Meridian:* -105.000000*Latitude\_of\_Projection\_Origin:* 0.000000*False\_Easting:* 500000.000000*False\_Northing:* 0.000000*Planar\_Coordinate\_Information:**Planar\_Coordinate\_Encoding\_Method:* coordinate pair*Coordinate\_Representation:**Abcissa\_Resolution:* 0.002048*Ordinate\_Resolution:* 0.002048*Planar\_Distance\_Units:* meters*Geodetic\_Model:**Horizontal\_Datum\_Name:* North American Datum of 1983*Ellipsoid\_Name:* Geodetic Reference System 80*Semi-major\_Axis:* 6378137.000000

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USDA Forest Service Region 2 2004 area flown/ not flown polygons

*Entity\_Type\_Definition\_Source:*Aerial Survey Geographic Information System Handboook (available online at: <http://www.fs.fed.us/foresthealth/publications/id/gishandbook.pdf>)*Attribute:**Attribute\_Label:* FID*Attribute\_Definition:* Internal feature number.*Attribute\_Definition\_Source:* ESRI*Attribute\_Domain\_Values:**Unrepresentable\_Domain:*

Sequential unique whole numbers that are automatically generated.

*Attribute:**Attribute\_Label:* Shape*Attribute\_Definition:* Feature geometry.*Attribute\_Definition\_Source:* ESRI*Attribute\_Domain\_Values:**Unrepresentable\_Domain:* Coordinates defining the features.*Attribute:**Attribute\_Label:* SURVEYOR1*Attribute\_Definition:* List of aerial surveyors*Attribute\_Definition\_Source:*

Aerial Survey Geographic Information System Handbook Appendix B and Appendix C.

*Attribute:**Attribute\_Label:* SURVEYOR2*Attribute\_Definition:*

List of aerial surveyors (used only for polygons with more than one attribute)

*Attribute\_Definition\_Source:*

Aerial Survey Geographic Information System Handbook Appendix B and Appendix C.

*Attribute:**Attribute\_Label:* SURVEYOR3*Attribute\_Definition:*

List of aerial surveyors (used only for polygons with three attributes)

*Attribute\_Definition\_Source:*

Aerial Survey Geographic Information System Handbook Appendix B and Appendix C.

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*Attribute\_Label:* AGENCY1

*Attribute\_Definition:* Acronym identifier for agency responsible for flight.

*Attribute\_Definition\_Source:*

Aerial Survey Geographic Information System Handbook Appendix B and Appendix C.

*Attribute:*

*Attribute\_Label:* AGENCY2

*Attribute\_Definition:*

Acronym identifier for agency responsible for flight (used only for polygons with more than one attribute).

*Attribute\_Definition\_Source:*

Aerial Survey Geographic Information System Handbook Appendix B and Appendix C.

*Attribute:*

*Attribute\_Label:* AGENCY3

*Attribute\_Definition:*

Acronym identifier for agency responsible for flight (used only for polygons with three attributes).

*Attribute\_Definition\_Source:*

Aerial Survey Geographic Information System Handbook Appendix B and Appendix C.

*Attribute:*

*Attribute\_Label:* BEGIN1

*Attribute\_Definition:* Beginning date for survey flown.

*Attribute\_Definition\_Source:*

Aerial Survey Geographic Information System Handbook Appendix B and Appendix C.

*Attribute:*

*Attribute\_Label:* BEGIN2

*Attribute\_Definition:*

Beginning date for survey flown (used only for polygons with more than one attribute).

*Attribute\_Definition\_Source:*

Aerial Survey Geographic Information System Handbook Appendix B and Appendix C.

*Attribute:*

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*Attribute\_Definition:*

Beginning date for survey flown (used only for polygons with three

attributes).

*Attribute\_Definition\_Source:*

Aerial Survey Geographic Information System Handbook Appendix B and Appendix C.

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*Attribute\_Label:* END1

*Attribute\_Definition:* Ending date for survey flown.

*Attribute\_Definition\_Source:*

Aerial Survey Geographic Information System Handbook Appendix B and Appendix C.

*Attribute:*

*Attribute\_Label:* END2

*Attribute\_Definition:*

Ending date for survey flown (used only for polygons with more than one attribute).

*Attribute\_Definition\_Source:*

Aerial Survey Geographic Information System Handbook Appendix B and Appendix C.

*Attribute:*

*Attribute\_Label:* END3

*Attribute\_Definition:*

Ending date for survey flown (used only for polygons with three attributes).

*Attribute\_Definition\_Source:*

Aerial Survey Geographic Information System Handbook Appendix B and Appendix C.

*Attribute:*

*Attribute\_Label:* SURVEY\_ID1

*Attribute\_Definition:* Year surveyed (0=2000, 99=1999, etc.)

*Attribute\_Definition\_Source:*

Aerial Survey Geographic Information System Handbook Appendix B and Appendix C.

*Attribute:*

*Attribute\_Label:* SURVEY\_ID2

*Attribute\_Definition:*

Year surveyed (0=2000, 99=1999, etc.). Used only for polygons with more than one attribute.

*Attribute\_Definition\_Source:*

Aerial Survey Geographic Information System Handbook Appendix B and Appendix C.

*Attribute:*

*Attribute\_Label:* SURVEY\_ID3

*Attribute\_Definition:*

Year surveyed (0=2000, 99=1999, etc.). Used only for polygons with three



attributes.

*Attribute\_Definition\_Source:*

Aerial Survey Geographic Information System Handbook Appendix B and Appendix C.

*Attribute:*

*Attribute\_Label:* FLOWN1

*Attribute\_Definition:* Code identifier for areas flown or not flown.

*Attribute\_Definition\_Source:*

Aerial Survey Geographic Information System Handbook Appendix B and Appendix C.

*Attribute:*

*Attribute\_Label:* FLOWN2

*Attribute\_Definition:*

Code identifier for areas flown or not flown (used only for polygons with more than one attribute).

*Attribute\_Definition\_Source:*

Aerial Survey Geographic Information System Handbook Appendix B and Appendix C.

*Attribute:*

*Attribute\_Label:* FLOWN3

*Attribute\_Definition:*

Code identifier for areas flown or not flown (used only for polygons with three attributes).

*Attribute\_Definition\_Source:*

Aerial Survey Geographic Information System Handbook Appendix B and Appendix C.

*Attribute:*

*Attribute\_Label:* FLIGHT\_DAY

*Attribute\_Definition:* Number of days from beginning of survey to end of survey.

*Attribute\_Definition\_Source:*

Aerial Survey Geographic Information System Handbook Appendix B and Appendix C.

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*Attribute\_Definition:*

Number of days from beginning of survey to end of survey (used only for polygons with more than one attribute).

*Attribute\_Definition\_Source:*

Aerial Survey Geographic Information System Handbook Appendix B and Appendix C.

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*Attribute\_Definition:*

Number of days from beginning of survey to end of survey (used only for polygons with three attributes).

*Attribute\_Definition\_Source:*

Aerial Survey Geographic Information System Handbook Appendix B and Appendix C.

*Attribute:*

*Attribute\_Label:* PURPOSE1

*Attribute\_Definition:* Purpose of aerial survey.

*Attribute\_Definition\_Source:*

Aerial Survey Geographic Information System Handbook Appendix B and Appendix C.

*Attribute:*

*Attribute\_Label:* PURPOSE2

*Attribute\_Definition:*

Purpose of aerial survey (used only for polygons with more than one attribute).

*Attribute\_Definition\_Source:*

Aerial Survey Geographic Information System Handbook Appendix B and Appendix C.

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*Attribute\_Label:* HECTARES

*Attribute:*

*Attribute\_Label:* PURPOSE3

*Attribute\_Definition:*

Purpose of aerial survey (used only for polygons with three attributes).

*Attribute\_Definition\_Source:*

Aerial Survey Geographic Information System Handbook Appendix B and Appendix C.

*Attribute:*

*Attribute\_Label:* AREA\_METER

*Attribute:*

*Attribute\_Label:* PERIMETER\_

*Attribute:*

*Attribute\_Label:* ACRES

*Attribute:*

*Attribute\_Label:* FLIGHT\_NOT

*Overview\_Description:*

*Entity\_and\_Attribute\_Overview:*

A companion handbook entitled "Aerial Survey Geographic Information System Handbook" should be obtained before using this data set. The handbook is available online at: <http://www.fs.fed.us/foresthealth/publications/id/gishandbook.pdf>. This handbook also serves as a data dictionary necessary for deciphering field codes.

*Entity\_and\_Attribute\_Detail\_Citation:*

Aerial Survey Geographic Information System Handbook  
(<http://www.fs.fed.us/foresthealth/publications/id/gishandbook.pdf>)

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*Distribution\_Information:*

*Distributor:*

*Contact\_Information:*

*Contact\_Organization\_Primary:*

*Contact\_Organization:*

USDA Forest Service, Rocky Mountain Region, Forest Health  
Management

*Contact\_Person:* Erik Johnson

*Contact\_Position:* Aerial Survey Program Manager

*Contact\_Address:*

*Address\_Type:* mailing and physical address

*Address:* USDA Forest Service, Rocky Mountain Region

*Address:* Erik Johnson (or Forest Health staff member)

*Address:* 740 Simms Street

*City:* Golden

*State\_or\_Province:* Colorado

*Postal\_Code:* 80401

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*Contact\_Electronic\_Mail\_Address:* jross@fs.fed.us

*Contact\_Electronic\_Mail\_Address:* fjcross@fs.fed.us

*Contact\_Electronic\_Mail\_Address:* jharris@fs.fed.us

*Hours\_of\_Service:* 0900-1600 MST

*Contact\_Instructions:* email preferred

*Resource\_Description:* Downloadable Data

*Standard\_Order\_Process:*

*Digital\_Form:*

*Digital\_Transfer\_Information:*

*Transfer\_Size:* 1.034

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*Metadata\_Reference\_Information:*

*Metadata\_Date:* 20060628

*Metadata\_Contact:*

*Contact\_Information:*

*Contact\_Organization\_Primary:*

*Contact\_Organization:*

USDA Forest Service, Rocky Mountain Region, Forest Health  
Management

*Contact\_Person:* Erik Johnson

*Contact\_Position:* Aerial Survey Program Manager

*Contact\_Address:*

*Address\_Type:* mailing and physical address

*Address:* USDA Forest Service, Rocky Mountain Region

*Address:* Erik Johnson (or Forest Health staff member)

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*City:* Golden

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*Hours\_of\_Service:* 0900-1600 MST

*Contact\_Instructions:* email preferred

*Metadata\_Standard\_Name:* FGDC Content Standards for Digital Geospatial Metadata

*Metadata\_Standard\_Version:* FGDC-STD-001-1998

*Metadata\_Time\_Convention:* local time

*Metadata\_Extensions:*

*Online\_Linkage:* <<http://www.esri.com/metadata/esriprof80.html>>

*Profile\_Name:* ESRI Metadata Profile

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